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Unclassified	Unclassified	Unclassified	SAR	25	code) (301) 342-1727	

Standard Form 298 (Rev. 8-98) Prescribed by ANSI Std. Z39-18



Range Instrumentation Division



HAVE! AVIATION SPATEMS

Telemetry Branch Assets





•RTPS (Real-Time Processing System) 7 Stream Central System, Each With:

- Four 10 Mbps PCM IRIG or non standard inputs.
- 64 analog inputs.
- flutter, schematics, 3D, barchart, cockpit symbology, etc. • 7 Color graphic displays - multifunction:
- EU data, all outputs, via Aydin S2K front-end.
- Derived measurements, limit checks, applications programs.
- TSPI inputs from & TM selected parameters to RCCS/EW.
- Universal capability for Fixed-wing, Rotary Wing and Avionics.
 - Quick response; unique software not required;
- Accredited for elassified work





Telemetry Branch Assets

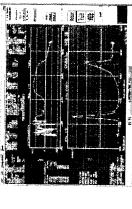






1553 Processing, IRIG standard format:

- Automated decoding
- Message and measurement ID and throughput



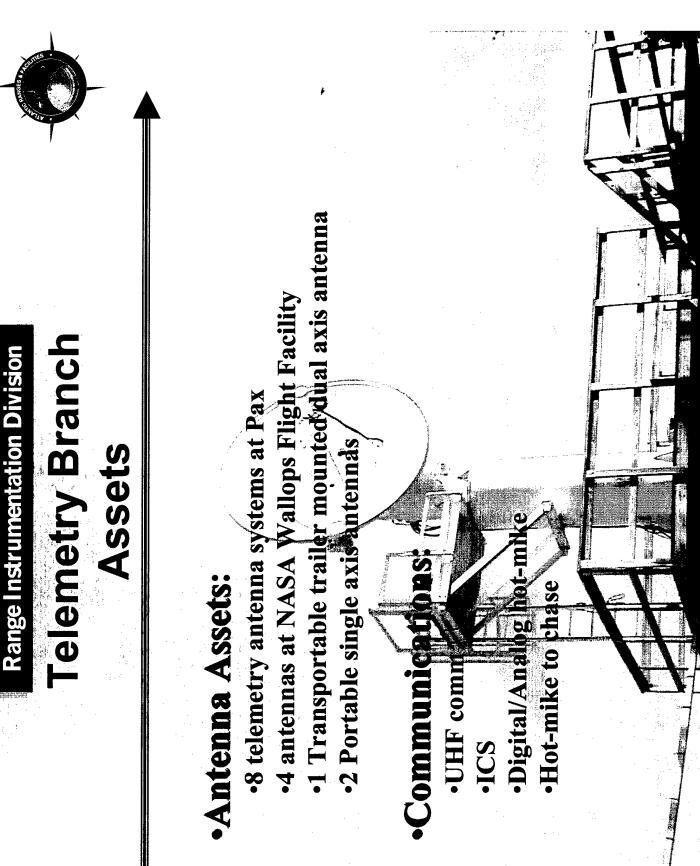


Flutter Test Flight Capability

- Only Navy facility that can support Flutter flight testing
 - Integral to 7 streams
- •Runs concurrently with all Real-Time Applications
- ·Utilizes advanced frequency and time domain based techniques









Telemetry Branch Assets



Extended TM Coverage

NASA WALLOPS FLIGHT FACILITY

- -4 TM antennas
- •Digital microwave link to Pax, 8 channel, 40 Mbps capacity
 - Digital microwave link, 6 Mbps capacity
- 2 analog microwaves, 1.5 MHz each, or one single 6 MHz video channe
 - 6 instrumented tracking radars
 - ·MATS/GPS coverage
- Drone -

Targets

BOM-74S or BQM-34S



G-1 (GULFSTREAM)

- ·Airborne TM relay, recording & quick-look displays
 - •PCM, PAM
- .L&S band auto track, receive & re-rad
- Right (ermination, command & target control
 - •MATS/GPS relay



Telemetry Branch Assets

Extended TM Coverage (Cont)

SATCOM

- •12 meter Earth Station
- ·Handles TM, timing, and voice
- ·CONUS coverage





•Provide air, land and carrier based mobile/remotesupl

Range Instrumentation Division



Telemetry Branch



FUTURE ASSETS

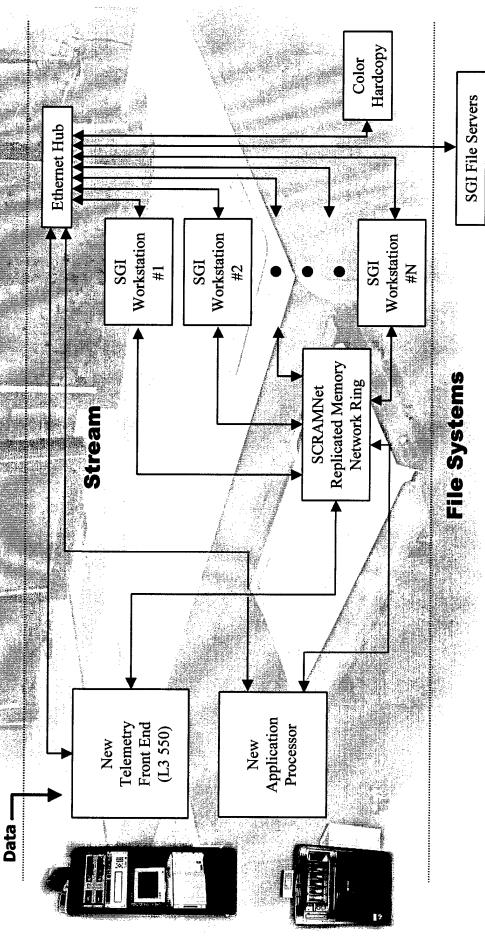
- •"TM Anywhere" via DREN (Defense Research & Engineering Network) includes data, voice communication, and video.
- G-1 Command & Control Relay for TMD (Theatre Missile Defense)
- RTPS IV



Prototype R T P S I V Architecture

Gradual Replacement (over four years) of RTPS III systems began in FY00, funded by I&M budget.

- Encore/Aydin/Adage equipment will be removed.
- New Telemetry Front End and Application Processing resources will be added
- Existing SGI and SCRAMNet assets will remain, allowing for transparent transition of current projects.
 - New display capabilities will be added.
- Data rate capacity infrastructure improvements will be made



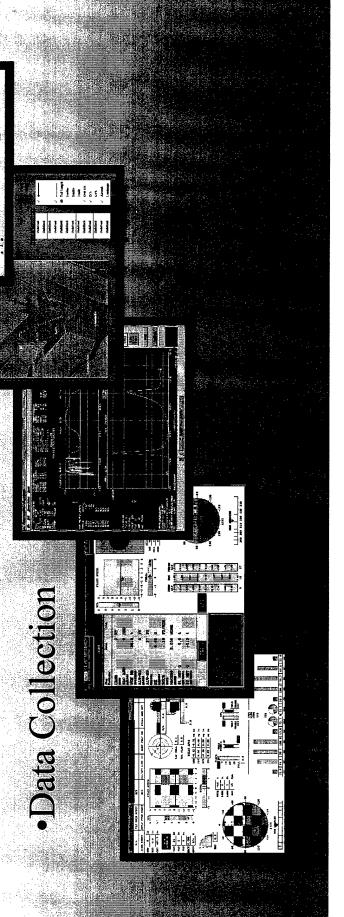
Prototype RTPSIV Console Layoul

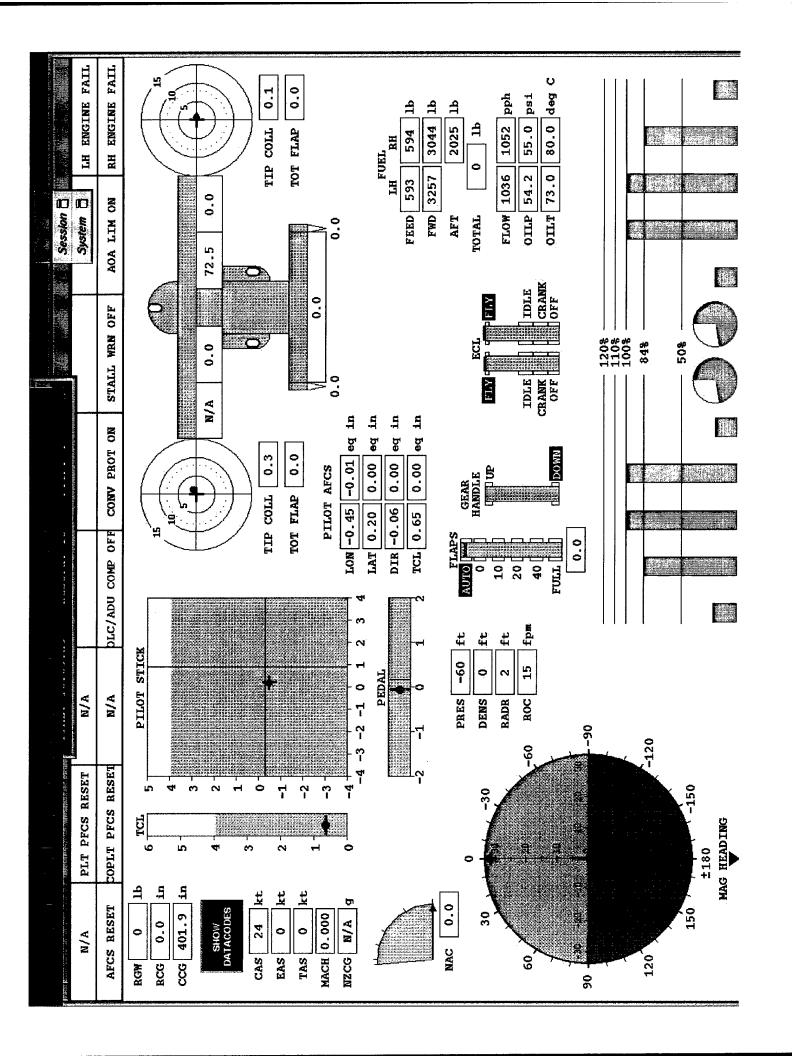
Real-Time Applications Products

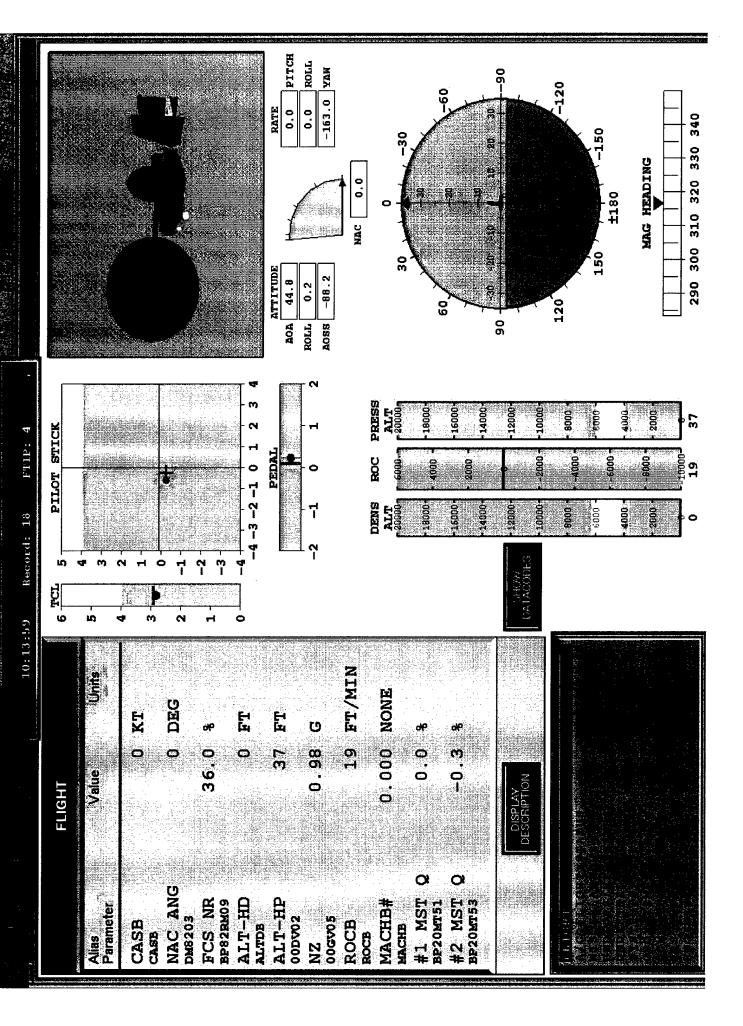
Custom displays

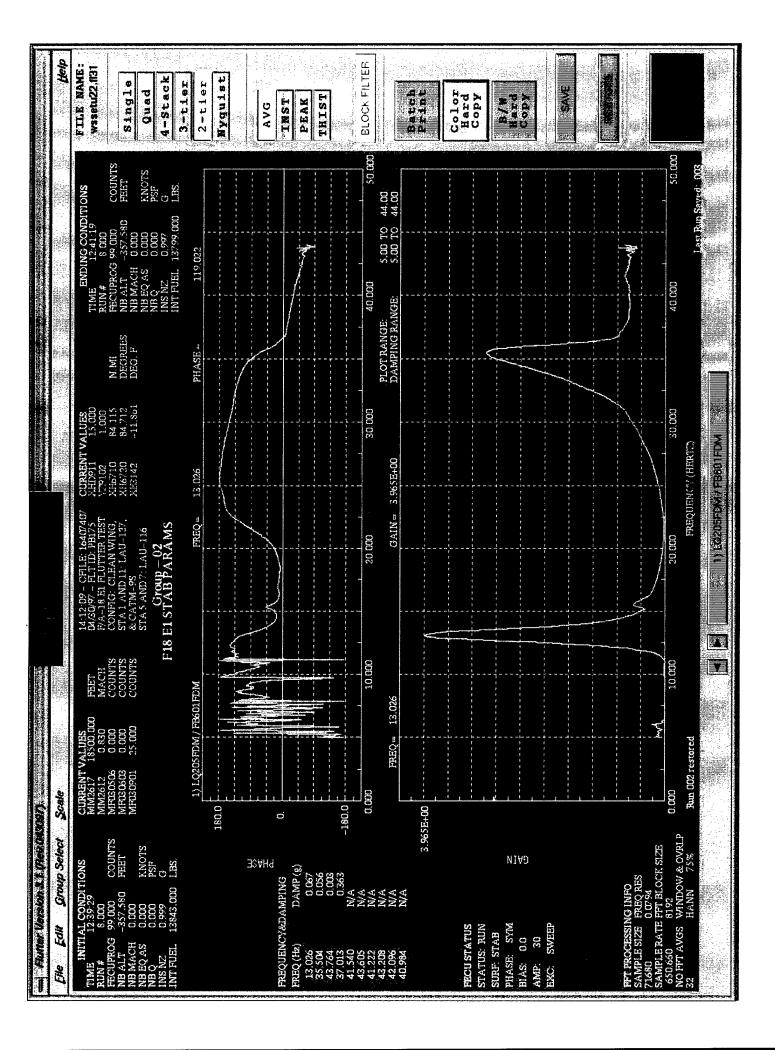
Derived Measurements

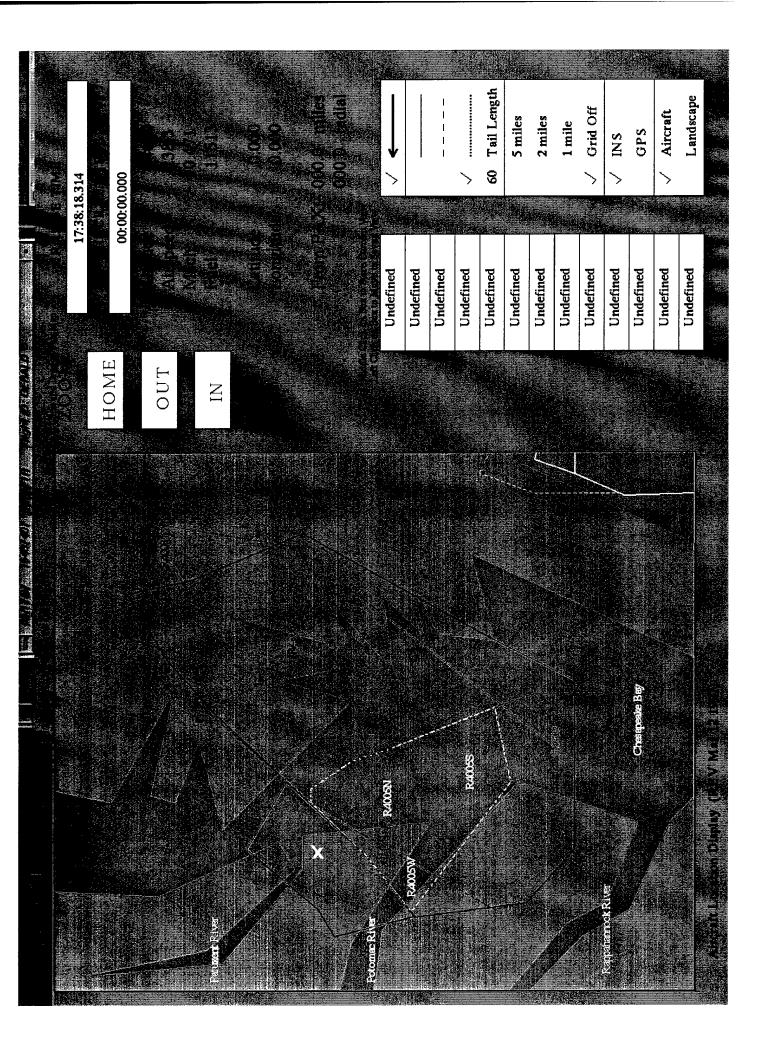
Spectral Analysis

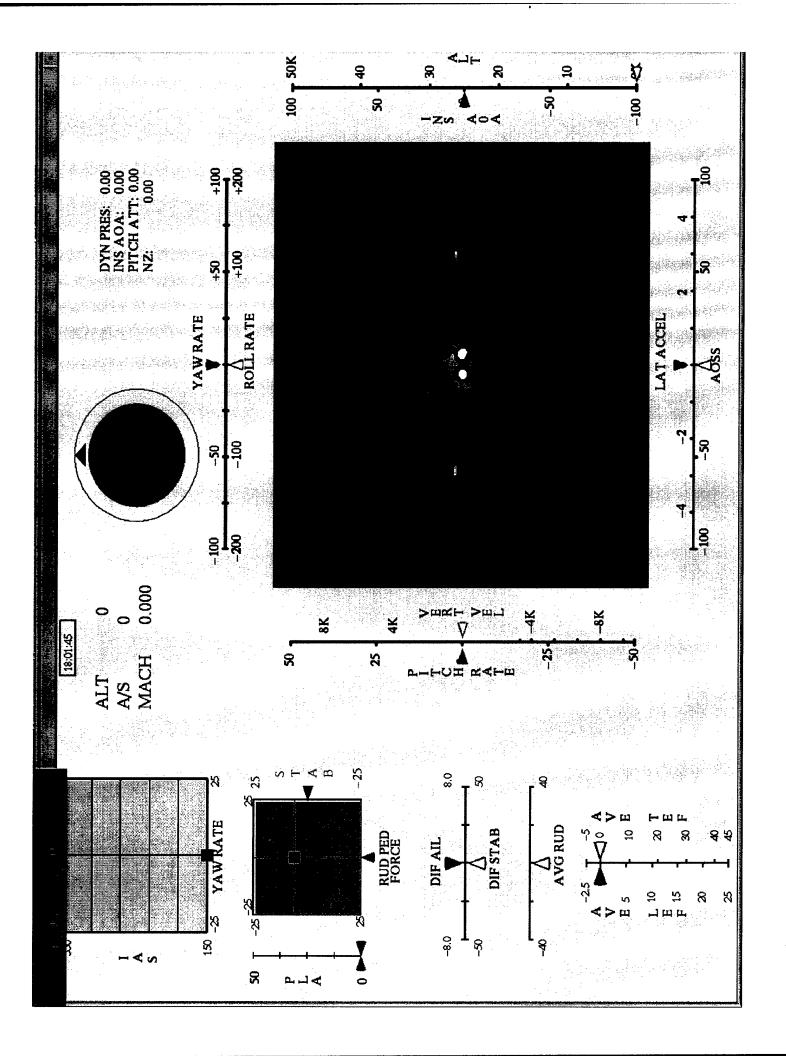


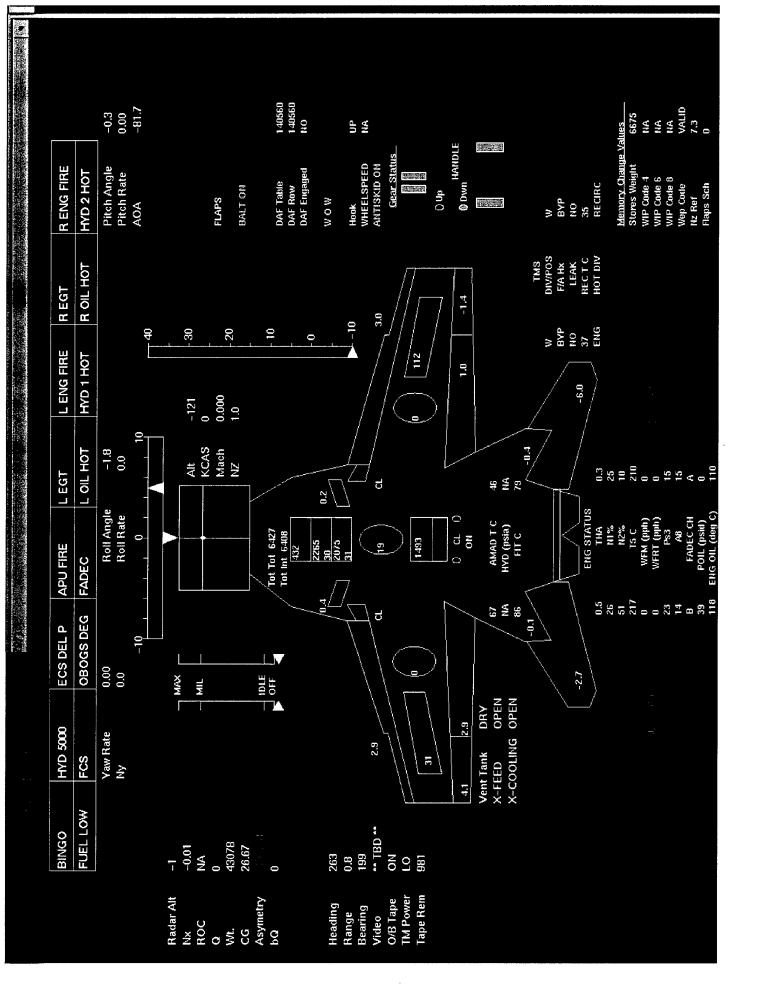




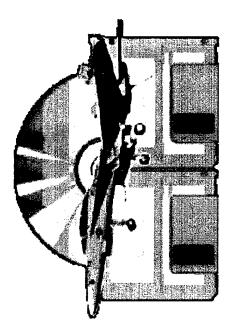








Post Flight



Atlantic Test Range

Products and Services



Data Conversion

→ EU, MDC, TSPI



Classified Processing

→ Accredited for classified work.



Data Distribution

→ Web, Secure FTP, CD, ZIP, Floppy, etc.



Data Merging

→ Merging data from different sources.



Analysis Tools

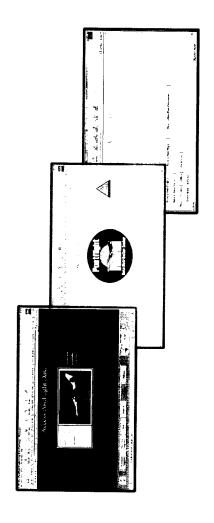
→ Different tools are available--Project specific.



Other Services

→ Digital Filters, Calculated Parameters

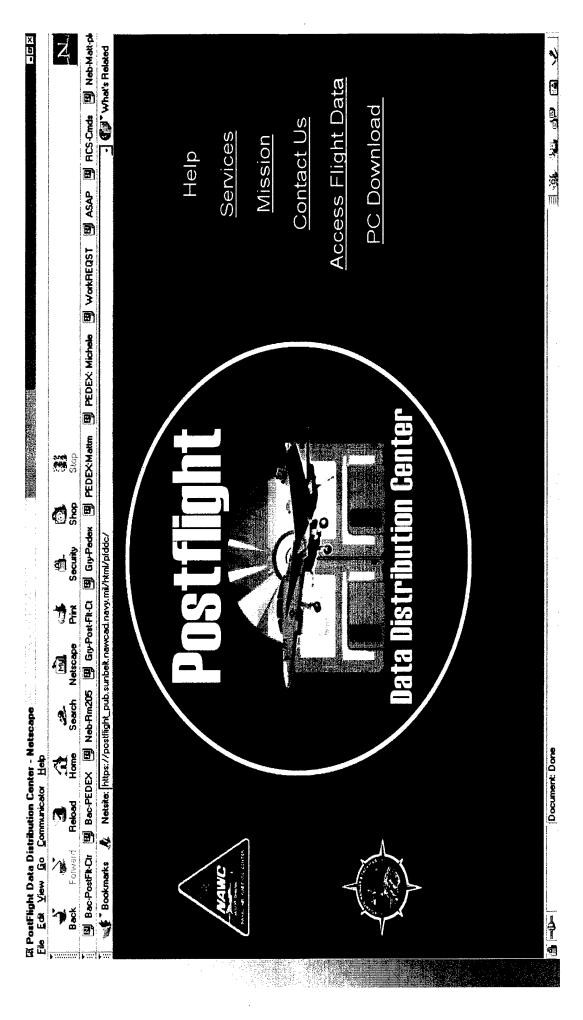
Web Interfaces to Flight Data



Three Web sites exist for Customer to:

- Analyze Flight Data on line.
- Simply Downloading ASCII Flight Data from any ATR Post Flight Group.
- Interface with ASAP (Advanced Scientific Analysis Package).

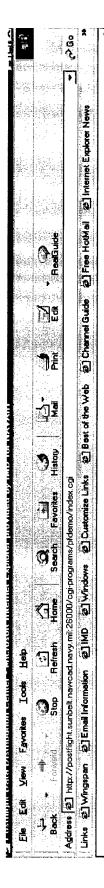
On-Line Data Analysis Post Flight Web



Access Flight Data

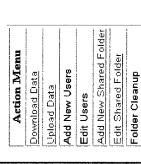


all ATR Customers Post Flight Web for



Atlantic Test Range





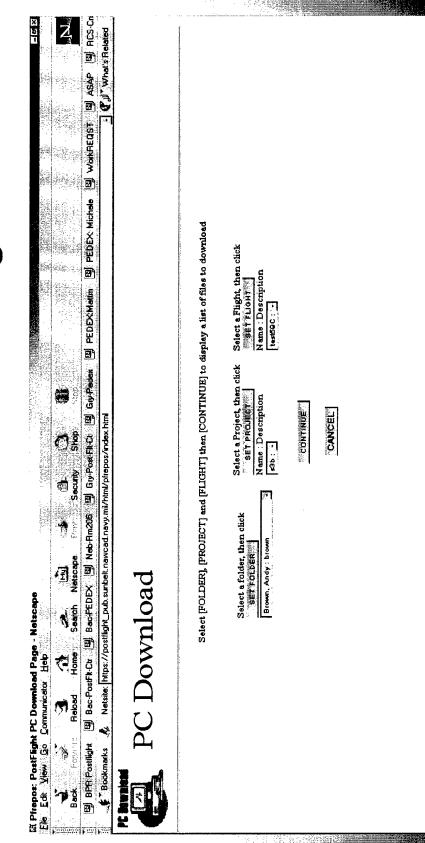




This Site Serves EW, GPS, Photogrammetrics, RCCS, and Telemetry Customers

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PC Download of ASCII Flight Data



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Web Version of ASAP Advanced Scientific Analysis Package

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Network Configuration

